

Insulated Metallic Substrate CCI SMI FR4 Prepreg



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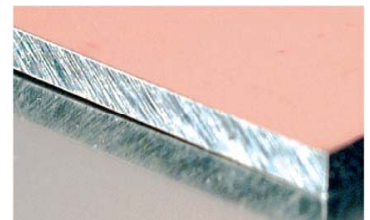
GENERAL

IMS is a solution to heat dissipation problems, allowing simple PCB designs. IMS is an alternative to solution such as heat sinks or ceramic substrates, often linked with interconnection difficulties.

IMS can be used in such fields as high voltage applications, power PCBs, coolers for transistors, thyristors, regulators, SMDs, power-LEDs, and in the automotive industry.

STANDARD CONSTRUCTION

ED COPPER Thickness (μm) : 17,5 – 35 – 70 – 105 – 210
FR4 PREPREG Thickness: 117 μm +/- 10%
ALUMINIUM (1050H24) Thickness (mm): 0,8 / 1 / 1,5 / 2 / 3 (others on request)



PROPERTIES

Properties	Test method	Values
Dielectric thermal conductivity	DIN V54462.	0.25 W/K.m
Dielectric Tg	DSC	135°C
Total thickness tolerance		+/-10%.
Break down voltage	IPC TM 650, 2.5.6.2	4.5 kV
Copper peel strength	IPC TM 650, 2.4.8.f	<ul style="list-style-type: none"> • After thermal shock: 1,95 N/mm • At 125 °C: 1,85 N/mm • After process solutions: 1,90 N/mm
Thermal shock resistance	2x20 seconds at 260°C +/-6 °C	Pass
Dielectric volume resistivity	IPC TM 650, 2.5.17.1	<ul style="list-style-type: none"> • C96/35/90: $6,0 \times 10^6 \text{ M}\Omega\cdot\text{cm}$ • Elevated temp. E24/125: $7,2 \times 10^6 \text{ M}\Omega\cdot\text{cm}$
Dielectric CTI	IEC-112	200 V

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For further information please contact us:

France - Paris - Phone: +33 (0)1 46 74 47 47 - Fax: + 33 (0)1 46 66 63 13 - Email: info@ccieurolam.com
France - Lyon - Phone: +33 (0)4 72 78 01 90 - Fax: 33 (0)4 78 76 08 91 - Email: info@ccieurolam.com
Germany - Frankfurt - Phone: + 49 (0)6103 3992-0 - Fax: + 49 (0)6103 3992-29 - Email: info@ccieurolam.de
UK - Cumbernauld - Phone: +44 793 120 7744 - Fax: + 44 191 422 7228 - Email: ebutcher@ccieurolam.com

Partner of the European PCB Industry